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BRINKS, HOFER, ET AL

2003/009

Appln. No. 10/807,663

Attorney Docket No. 10541-1952

I. Listing of Claims

1. (Original): An ignition coil for an internal combustion engine comprising:

a housing having a bottom wall connected to an outer wall extending around

the periphery of the housing;

an outer core positioned inside the outer wall of the housing;

an inner core positioned inside the outer core;

a coil assembly mounted to the inner core, the coil assembly including a

primary winding and a secondary winding concentrically positioned re ative to each

other, the coil assembly positioned inside the outer core; and

the housing further having an inner wall extending along the Inner periphery of

the outer core and positioned between the outer core and the coil assembly.

2. (Original): The ignition coil of claim 1, further comprising an encapsulate

filling at least a portion of the housing and covering the coil assembly, the inner wall

separating the outer core from direct contact with encapsulate in the vicinity of the

coil assembly.

3. (Original): The ignition coil of claim 2, wherein the inner wall defines an

inner compartment, and wherein the inner and outer walls define an outer

compartment therebetween, the inner chamber being filled with encapsulate.

4. (Original): The ignition coil of claim 3, wherein the outer compartment is

filled with a substance different than the encapsulate.

-2-

10/05/2005 15:21 FAX 17349946331

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5. (Original): The ignition coil of claim 4, wherein the outer compartment is

filled with air.

6. (Original): The ignition coil of claim 4, wherein the outer compartment is

filled with a substance having more ductility than the encapsulate.

7. (Original): The ignition coil of claim 1, wherein the inner wall extends

between the inner core and the outer core to form an air gap therebetween.

8. (Original): The ignition coil of claim 7, wherein the inner core includes first

and second ends, each end positioned proximate the outer core, and wherein the

inner wall extends between the first end of the inner core and the outer core to form

the air gap.

9. (Original): The ignition coil of claim 8, wherein the inner wal also extends

between the second end of the inner core and the outer core.

10. (Currently Amended): The ignition coil of claim [[8]] 1, wherein [[the]] a

first end of the inner core includes a permanent magnet attached thereto and

engaging an inner surface of the outer core, the first end and magnet extending

through an aperture formed in the inner wall.

-3-

Appln. No. 10/807,663

Attorney Docket No. 10541-1952

11. (Original): The ignition coil of claim 8, wherein the inner wall includes a reduced thickness portion positioned adjacent the first end of the inner core, the reduced thickness portion forming the air gap.

12. (Original): The ignition coil of claim 8, wherein the inner wall includes a permanent magnet integrally formed therein, the permanent magnet positioned adjacent the first end of the inner core.

13. (Original): The ignition coil of claim 1, wherein the inner wall extends upwardly to a position at or above an upper surface of the outer core.

14. (Original): The ignition coil of claim 1, wherein the inner wall extends upwardly to a position at or above an upper surface of the coil assembly

15. (Original): The ignition coil of claim 1, wherein the inner wall extends upwardly to a position aligned with an upper end of the outer wall.

16. (Currently Amended): The ignition coil of claim 1, wherein the inner wall is integrally formed with the housing and constructed of a plastic materia.

17. (Original): The ignition coil of claim 1, wherein the inner wall is not integrally formed with the outer core.

-4-

Appln. No. 10/807,663

Attorney Docket I'lo. 10541-1952

18. (Original): An method for constructing an ignition coil for an internal combustion engine, the method comprising the steps of:

providing a housing having an outer wall extending around the periphery and an inner wall positioned inside the outer wall, the inner wall defining an inner compartment, the inner and outer walls cooperatively defining an outer compartment therebetween;

providing an inner core, an outer core and a coil assembly, the coil assembly mounted to the inner core, the coil assembly including a primary winding and a secondary winding concentrically positioned relative to each other;

positioning the outer core within the outer compartment;

positioning the inner core and coil assembly within the inner compartment;

filling the inner compartment with an encapsulate without filling the outer compartment at the same time.

- 19. (Original): The method of claim 18, further comprising the step of filling the outer compartment with a second encapsulate that is different from the first encapsulate.
- 20. (Original): The method of claim 18, wherein the second encapsulate has more ductility than the first encapsulate.
- 21. (Original): The method of claim 18, wherein the inner wall is integrally formed with the housing.

-5-

Appln. No. 10/807,663

Attorney Docket I lo. 10541-1952

- 22. (Original): The method of claim 18, wherein the inner wall is not integrally formed with the outer core.
- 23. (Original): The method of claim 18, wherein the inner core includes first and second ends, each end positioned proximate the outer core, and wherein the inner wall extends between the first end of the inner core and the outer core to form an air gap.
- 24. (Original): The method of claim 18, wherein the inner wall extends upwardly to a position at or above an upper surface of the outer core.

BRINKS HOFER GILSON &LIONE -6-